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[1. AF153-001: Global Surveillance Augmentation Using Commercial Satellite Imaging Systems](#)

Release Date: 08-27-2015 Open Date: 09-28-2015 Due Date: 10-28-2015 Close Date: 10-28-2015

* DIRECT TO PHASE II * TECHNOLOGY AREA(S): The technology within this topic is restricted under the International Traffic in Arms Regulation (ITAR), 22 CFR Parts 120-130, which controls the export and import of defense-related material and services, including export of sensitive technical data, or the Export Administration Regulation (EAR), 15 CFR Parts 730-774, which controls dual use items. ...

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[2. AF153-002: Handheld Dismount Kit for Persistent, Precision Navigation in GPS-challenged Environments for Military Operations](#)

Release Date: 08-27-2015 Open Date: 09-28-2015 Due Date: 10-28-2015 Close Date: 10-28-2015

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[3. AF153-003: Additive Manufacturing to Support 100% Parts Availability](#)

Release Date: 08-27-2015 Open Date: 09-28-2015 Due Date: 10-28-2015 Close Date: 10-28-2015

* DIRECT TO PHASE II * TECHNOLOGY AREA(S): Materials/Processes The technology within this topic is restricted under the International Traffic in Arms Regulation (ITAR), 22 CFR Parts 120-130, which controls the export and import of defense-related material and services, including export of sensitive technical data, or the Export Administration Regulation (EAR), 15 CFR Parts 730-774, which contr ...

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[4. AF153-004: Additive Manufacturing of Masking to Support Turbine Engine Sustainment](#)

Release Date: 08-27-2015 Open Date: 09-28-2015 Due Date: 10-28-2015 Close Date: 10-28-2015

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[5. GENSETS: GENerators for Small Electrical and Thermal Systems \(GENSETS\)](#)

Release Date: 07-16-2015 Open Date: 07-16-2015 Due Date: 08-17-2015 Close Date: 08-17-2015

PLEASE NOTE: A prior Letter of Intent is not required for this specific FOA from DOE-ARPA-E. SUMMARY The GENSETS Program – GENerators for Small Electrical and Thermal Systems – seeks to fund the development of potentially disruptive generator technologies that will enable widespread deployment of residential Combined Heat and Power (CHP) systems. Here, CHP is defined as the distributed generat ...

SBIRSTTR Department of Energy ARPA-E

[6. AF141-001: Non-Silicon and Non-Boron based Leading Edges for Hypersonic Vehicles](#)

Release Date: 11-20-2013 Open Date: 12-20-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

OBJECTIVE: Identify and demonstrate a new material system with suitable material properties to realize the advanced leading edges for use in reusable or long flight time hypersonic vehicles. DESCRIPTION: Air Force-relevant applications include but not limited to sharp leading edges, rocket nozzles, throats and engine combustion parts are key components that enable hypersonic flight. These lead ...

SBIR Department of DefenseAir Force

7. AF141-002: Epitaxial Technologies for SiGeSn High Performance Optoelectronic Devices

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop SiGeSn epitaxy on silicon and germanium substrates for new degrees of freedom in optoelectronic devices operating in the wavelength range between 2.0 and 5.0 micrometers. DESCRIPTION: Conventional mid-infrared materials based on the III-V (GaInSb) and the II-VI (HgCdTe) materials are relatively expensive and incompatible with silicon-based integrated circuit processing. S ...

SBIR Department of DefenseAir Force

8. AF141-003: Variable Precision Filters

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: The development of innovative mathematical techniques for the design of digital filters allowing trade-offs between accuracy, precision and memory. DESCRIPTION: The design of finite impulse response (FIR or non-recursive) and infinite impulse response (IIR or recursive) digital filters has a long history and, over the years, many methods have been developed to design FIR, IIR filt ...

SBIR Department of DefenseAir Force

9. AF141-004: Radio-frequency Micro-electromechanical Systems with Integrated Intelligent Control

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Improve the robustness and reliability of radio-frequency micro-electromechanical systems by orders of magnitude beyond the state of the art, making them suitable for defense applications. DESCRIPTION: Radio-frequency micro-electromechanical systems (RF MEMS) have many performance advantages as microwave switches, tuners, filters and phase shifters with higher linearity, lower los ...

SBIR Department of DefenseAir Force

10. AF141-005: SMART Bandage for Monitoring Wound Perfusion

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop and demonstrate an innovative wound dressing that quantitatively reports tissue perfusion for monitoring and optimizing wound healing. DESCRIPTION: The current standard-of-care for wounds and grafts relies on subjective observations of tissue health that are episodic and can vary greatly between caregivers with different degrees of

training (1). For example, measurements o ...

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